

ABSTRACT OF THE DISCLOSURE

A method and apparatus to stably generate a tracking error signal even for a compact disc (CD) with a pit depth of about $\lambda/4$ or a narrow track pitch in an optical storage drive, an optical storage drive using the same, and a lead-in control method of the optical storage drive. The method includes detecting reflected laser beams using a photo detector; and generating a first tracking error signal based on optical signals received by the photo detector, using a differential phase detection (DPD) method and outputting the first tracking error signal as the tracking error signal.